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SONAR TEST AND TEST INSTRUMENTATION SUPPORT.(U)
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NAVAL UNDERWATER SYSTEMS CENTER
NEW LONDON, CT 06320

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I. INTRODUCTION

Applied Research Laboratories, The University of Texas at Austin (ARL:UT), was awarded Contract N00140-76-C-6487, sponsored by New London Laboratory, Naval Underwater Systems Center (NLONLAB NUSC), effective 1 June 1976. Some of the work under this contract represents a follow-on effort to previous work sponsored by NLONLAB NUSC under Contract N00140-74-C-6316.

The work under Contract N00140-76-C-6487 was originally divided into six task areas that focused on technical support in areas of sonar technology.

- I. AN/FQM-10(V) Sonar Test Set Field Support
- II. Transducer Repair Facility Test Site Field Support
- III. AN/WQM-5 Sonar Test Set Field Support
- IV. Special Purpose Passive Sonar Systems Support
- V. Sonar Instrumentation Test and Evaluation
- VI. Study of Towed Line Array Acoustical Testing at Transducer Repair Facilities

Additional tasks were added by contract modifications, as follows.

- VII. AN/SQM-() Sonar Noise Measuring Set Development (Mod P00019)
- VIII. AN/WQM-5() Sonar Test Set Development (P00019)
- IX. Sonar Dome Maintenance Documentation Support (P00019)
- X. AN/BQQ-5 Power Supply Development (P00019) (follow-on work under Contracts N00024-77-C-6035 and similar effort under Contract N00123-79-C-0459)
- XI. AN/BQQ-6 Test Instrumentation (P00035)
- XII. AN/WLR-12 Calibration (P00033)

This report is Quarterly Progress Report No. 15 under Contract
N00140-76-C-6487, for the period 1 December 1979 - 29 February 1980.

II. SPECIAL PURPOSE PASSIVE SONAR SYSTEMS SUPPORT

No work was performed on this task during the report period.

III. SONAR INSTRUMENTATION TEST AND EVALUATION

Work is continuing on the operating system and user calibration software for the AN/GQM-2 Transducer Test Set. Delivery of the completed software is expected during the next report period.

IV. AN/WQM-5() PROGRAM

A. Field Change Program

During this report period, ARL:UT delivered one AN/WQM-5A, Ser A2, to NAVSHIPYD CHASN. Thus far, a total of 16 modified sets have been delivered.

B. Field Support Services

Various pieces of in-house equipment that were needed to accomplish test set repairs were sent to MOTU 4 at New London, CT, and to NAVSHIPYDs PHILA and PTSMH.

1 October 1980

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